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## **CLAIMS**

Hat is claimed is.

- 1 Claim 1. (CURRENTLY AMENDED) Apparatus [10] to facilitate surface
- 2 treatment of articles of manufacture [12] of the type having a given
- 3 handling surface [14], said apparatus comprising:
- 5 a releasable gripping structure [16] [13] for supporting, in a stable
- 6 position, an article of manufacture [12] of the type having a given
- 7 handling surface [14];
- 9 a source [18] of elongate stem elements [20], said source being
- positioned to align a given one of said elongate stem elements [20] with
- the elongate axis [22] thereof in a predetermined orientation relative to
- said given handling surface of said plastie article of manufacture;
- 14 an advancing mechanism [24] for advancing a free end [34] of said
- 15 given elongate stem element [20] into contact with said given handling
- surface [14] of said plastic article [12]; and
- a securing mechanism [26] for fixedly attaching said free end [34] of
- 19 said given elongate stem element [20] to said given handling surface
- 20 [14] of said plastic article [12], such that said stem element thereafter

- 21 fixedly extends from said handling surface to serve as a handle for
- 22 manipulating and supporting said article.
  - 1 Claim 2. (CURRENTLY AMENDED) Apparatus in accordance with Claim
  - 2 I wherein:

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- 4 said source of elongate stem elements [18] comprises a reel [36] of
- 5 coilable plastic rod material [38] defining a substantially continuous
- 6 supply of elongate stem elements [20], said rod material having a
- 7 captive end retained in association with said reel and a free end [40]
- 8 defining said one end [34] of said given one of said stem elements [20].
- 1 Claim 3. (ORIGINAL) Apparatus in accordance with Claim 1 wherein:
- 2 said source of elongate stem elements [18] comprises a plastic extrusion
- 3 processor for extruding a plastic stem of predetermined dimensions.
- 1 Claim 4. (ORIGINAL) Apparatus in accordance with Claim 3 wherein:
- 2 said advancing mechanism comprises an assembly for axially receiving
- 3 said extruded stem element from said extrusion processor and axially
- 4 advancing said stem element into contact with said article of
- 5 manufacture.
- 1 Claim 5. (ORIGINAL) Apparatus in accordance with Claim 1 wherein:
- 2 said source of elongate stem elements [18] comprises a hopper-feed

- 3 assembly capable of being loaded with a plurality of said stem elements
- 4 for axially advancing one such element at a time into a predetermined
- 5 position.
- 1 Claim 6. (ORIGINAL) Apparatus in accordance with Claim 1 wherein:
- 2 both said article of manufacture and said stern element are formed of
- 3 plastic, and
- 4 said securing mechanism comprises an ultrasonic welding assembly.
- 1 Claim 7. (ORIGINAL) Apparatus in accordance with Claim 1 wherein:
- 2 both said article of manufacture and said stem element are formed of
- 3 plastic, and
- 4 said securing mechanism comprises a chemical bonding assembly.
- 1 Claim 8. (ORIGINAL) Apparatus in accordance with Claim 1 wherein:
- 2 both said article of manufacture and said stem element are formed of
- 3 thermoplastic material, and
- 4 said securing mechanism comprises a heating element to form a
- 5 thermoplastic bond.
- 1 Claim 9. (ORIGINAL) Apparatus in accordance with Claim 1 wherein:

- 2 said stem element is formed of metal having deformable barbs thereon,
- 3 and

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- 4 said securing mechanism comprises a force-fitting assembly for defining
- 5 said barbs within said article.
- 1 Claim 10. (ORIGINAL) A method for facilitating manipulation of
- 2 articles of manufacture during surface treatment processing, comprising
- 3 the steps of:
- 4 [100] firmly gripping said article of manufacture in a given position;
- 5 [200] aligning an elongate processing stem in physical
- 6 contact with said article of manufacture at a given point of contact; and
- 7 [300] physically attaching said processing stem to said article of
- 8 manufacture at said given point of contact, such that said processing
- 9 stem can be used as a handle for manipulating and supporting said
- 10 substrate article.

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- 1 Claim 11. (ORIGINAL) The method of claim 10, wherein:
- 2 2said processing stem is formed of plastic material; and
- 3 said attaching step comprises thermal bonding of said stem to said
- 4 article of manufacture at said given point of contact.
- 1 Claim 12. (ORIGINAL) The method of claim 11, wherein:
- 2 both said article of manufacture and said processing stem are formed of

- 3 plastic material.
- 1 Claim 13. (ORIGINAL) The method of claim 10, wherein:
- 2 one end of said stem is bent at an angle relative to the other end thereof
- 3 to achieve a desired orientation of said stem relative to said article.
- 1 Claim 14. (ORIGINAL) The method of claim 10, wherein:
- 2 said processing stem is formed of suitably deformable metal; and
- 3 said attaching step comprises axially pressing a portion of said stem into
- 4 the body of said substrate article and deforming said stem within said
- 5 substrate article to form a mechanical bond 'between said body of said
- 6 article and said portion of said stem.

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